

Top 20 Chemicals with Largest TRI On-site and Off-site Disposal or Other Releases, 2002: Coal Mining (SIC 12)

On-site Disposal or Other Releases																Total On-site Disposal or Other Releases Pounds	Total Off-site Disposal or Other Releases Pounds	Total On-site and Off-site Disposal or Other Releases Pounds
CAS Number Chemical	On-site Disposal to Class I Underground Injection				Other On-site Disposal or Other Releases													
	Class I Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Landfills Pounds	Subtotal Pounds	Fugitive Air Emissions Pounds	Point Source Air Emissions Pounds	Surface Water Discharges Pounds	Class II-V Wells Pounds	Land Treatment Pounds	Surface Impoundment Pounds	Other Land Disposal Pounds	Subtotal Pounds						
-- Barium compounds	0	0	5,635,348	5,635,348	369	26	651	7,757	331,551	1,182,695	130,084	1,653,133	7,288,481	0	7,288,481			
-- Manganese compounds	0	0	914,790	914,790	403	10	13,792	41,815	221,896	797,004	331,743	1,406,663	2,321,453	0	2,321,453			
7664-41-7 Ammonia	0	0	0	0	616,822	275	136,853	0	67,428	215,449	0	1,036,827	1,036,827	0	1,036,827			
-- Zinc compounds	0	0	204,619	204,619	25	10	28	10,389	180,959	424,264	92,431	708,106	912,725	0	912,725			
7439-92-1 Lead	0	0	80,580	80,580	22	255	17	0	772,334	23,037	12,300	807,964	888,544	0	888,544			
-- Vanadium compounds	0	0	348,770	348,770	27	0	0	0	334,168	177	44,284	378,656	727,426	0	727,426			
-- Lead compounds	0	0	542,527	542,527	45	54	44	5,168	47,343	47,540	14,283	114,477	657,004	5,344	662,348			
-- Chromium compounds	0	0	127,793	127,793	27	10	538	250	144,159	64,657	18,000	227,641	355,434	0	355,434			
-- Copper compounds	0	0	164,989	164,989	9	0	18	0	52,700	31,982	0	84,709	249,698	0	249,698			
-- Nickel compounds	0	0	58,076	58,076	23	5	514	319	89,959	84,236	13,000	188,056	246,132	0	246,132			
-- Arsenic compounds	0	0	47,683	47,683	0	5	119	0	64,118	32,354	31,462	128,058	175,741	0	175,741			
7440-39-3 Barium	0	0	0	0	0	0	0	0	0	0	104,358	104,358	104,358	0	104,358			
-- Cobalt compounds	0	0	48,000	48,000	3	0	0	0	36,426	18,493	0	54,922	102,922	0	102,922			
7439-96-5 Manganese	0	0	0	0	0	0	818	0	59,698	0	27,698	88,214	88,214	0	88,214			
-- Thallium compounds	0	0	37,930	37,930	0	0	0	0	27,676	1	0	27,677	65,607	0	65,607			
7440-38-2 Arsenic	0	0	0	0	5	0	37	0	28,863	0	28,384	57,289	57,289	0	57,289			
7440-66-6 Zinc (fume or dust)	0	0	0	0	0	0	0	0	23,782	0	28,892	52,674	52,674	0	52,674			
7440-62-2 Vanadium (except when contained in an alloy)	0	0	0	0	0	0	0	0	0	0	43,224	43,224	43,224	0	43,224			
7664-93-9 Sulfuric acid	0	0	0	0	0	41,916	0	0	0	0	0	41,916	41,916	0	41,916			
-- Selenium compounds	0	0	29,892	29,892	0	0	0	0	0	1	0	29,893	29,893	0	29,893			

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at [www.epa.gov/tri/tridata/index.htm#pdr](http://www.epa.gov/tri/tridata/index.htm#pdr).

On-site Disposal or Other Releases include Underground Injection to Class I Wells (Section 5.4.1), RCRA Subtitle C Landfills (5.5.1A), Other Landfills (5.5.1B), Fugitive or Non-point Air Emissions (5.1), Stack or Point Air Emissions (5.2), Surface Water Discharges (5.3), Class II-V Wells (5.4.2), Land Treatment (5.5.2), Surface Impoundments (5.5.3) and Other Land Disposal (5.5.4). Off-site Disposal or Other Releases include from Section 6.2 Underground Injection (M71), RCRA Subtitle C Landfills (M65), Other Landfills (M64, M72), Storage Only (M10), Solidification/Stabilization - Metals and Metal Category Compounds only (M41 or M40), Wastewater Treatment (excluding POTWs) - Metals and Metal Category Compounds only (M62 or M61), Surface Impoundments (M63), Land Treatment (M73), Other Land Disposal (M79), Other Off-site Management (M90), Transfers to Waste Broker - Disposal (M94, M91), and Unknown (M99) and, from Section 6.1 Transfers to POTWs (metals and metal category compounds only).

Does not include Off-site Disposal or Other Releases transferred to other TRI facilities that reported the amounts as on-site disposal or other releases.

Facilities/forms are included in the manufacturing industry categories (SIC Codes 20-39) if they did not report a SIC code in the other industries. Forms that reported more than one 2-digit SIC code within the range 20 to 39 are assigned to the "multiple codes" category. Facilities/forms are included in the other industry categories if the facility/form has a SIC code in the other industries and no SIC code in 20-39. If the facility reported in any year prior to 1998 and the facility/form has a combination of manufacturing and other industry SIC codes, then the facility/form is included in the manufacturing industry category. If the facility reported for the first time in 1998 or later and the facility/form has a combination of manufacturing and other industry SIC codes, then the facility/form is included in the other industry category. Forms with no 2-digit SIC code are included in the "no codes" category. One facility, Phelps Dodge Miami of Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 2002 and previous years have been included in SIC code 10 for the purpose of this analysis.